

Abstract

Communication apparatus for interfacing between wired and wireless voice/data generating/receiving apparatuses and a physical telephone line of a communication network that comprises a telephone outlet, which is mounted within a wall of a building and includes first and second connecting means. These connecting means are electrically connected to each other and to the physical telephone line. The second connecting means allow connecting a wired telephone apparatus to the telephone line.

A detachable module is designed to be completely embedded within the telephone outlet, whenever inserted into the outlet, mechanically fits into, and electrically adapted to cooperate with the outlet. The module has a wireless end and first and second wired ends, and provides wireless coupling between the voice/data generating/receiving apparatus and the telephone line by utilizing the wireless end and wired coupling between the module to the telephone line, which is obtained by utilizing the first wired end and the first connection means. The module comprises all the circuit components required for receiving and transmitting the wireless voice/digital information and, if required, to transform the format of the received voice/digital information into a format complying with a communication protocol suitable to be fed to the communication network. The first wired end of the module comprises electrical contacts for providing the circuit components power, which exists on the telephone line, and signal connectivity, and is capable of mating with the first connection means. The second wired end of the module is designed to be completely embedded within the module, and intermediates between a wired telephone apparatus and the telephone line.